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ASSOCIATED PLATING COMPANY

Third Quarter 2006 Groundwater Monitoring Report

**Associated Plating Company, 9636 Ann Street,
Santa Fe Springs, California**

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Lee Paprocki, a California Professional Geologist, as an employee of WorleyParsons Komex, with expertise in contaminant assessment and remediation, and groundwater hydrology, has reviewed the report with the title **Third Quarter 2006 Groundwater Monitoring Report, APC Facility, 9636 Ann Street, Santa Fe Springs, California**. Her signature and stamp appear below.

Lee Paprocki

Professional Geologist 7749



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LIST OF ACRONYMS AND ABBREVIATIONS

APC	Associated Plating Company
bgs	below ground surface
cis-1,2-DCE	cis-1,2-dichloroethene
DOT	Department of Transportation
DTSC	Department of Toxic Substances Control
DWR	Department of Water Resources
ft/ft	feet per foot
LNAPL	light non-aqueous phase liquid
MSL	mean sea level
ug/L	micrograms per liter
mg/L	milligrams per liter
ml	milliliter
QA	quality assurance
QC	quality control
PCE	tetrachloroethene
TCE	trichloroethene
TPH	total petroleum hydrocarbons
USEPA	United States Environmental Protection Agency
VC	vinyl chloride
VOA	volatile organic analysis
VOCs	volatile organic compounds



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1. INTRODUCTION

This document has been prepared by WorleyParsons Komex on behalf of the Associated Plating Company (APC). The report summarizes the groundwater sampling and well surveying conducted at 9636 Ann Street, Santa Fe Springs, California (herein referred to as the Site). The Site is located in Santa Fe Springs, California at an elevation of approximately 150 feet above mean sea level (MSL) with a local topographic gradient of less than 20 feet per mile to the southeast (**Figures 1 and 2**). Monitoring wells, MW-1 through MW-4, were installed at the Site on April 5 and 6, 2006 (**Table 1**) and were first sampled a week later (**Figure 3**).

Groundwater sampling and analysis completed at the Site during April 2006 identified the presence of chlorinated solvents and petroleum hydrocarbons.

The Department of Toxic Substances Control (DTSC), in their letter dated December 14, 2005 and in a meeting on August 22, 2006, requested that quarterly groundwater sampling be continued for one year. Therefore, third quarter groundwater sampling was conducted in August 2006 and is summarized in this report.

1.1 Geology and Hydrogeology

1.1.1 Regional Geology and Hydrogeology

Los Angeles County is underlain by the Los Angeles County Coastal Plain and is bounded by the Santa Monica Mountains to the north, the low lying Elysian, Repetto, Merced, and Puente Hills to the northeast, a political boundary coinciding with the boundary between Los Angeles County and Orange County to the southeast, and the Pacific Ocean to the southwest. Alluvial fans formed by the Los Angeles, Rio Hondo, and San Gabriel Rivers systems have coalesced to form the Downey Plain, which represents the largest area of recent alluvial deposition in the Coastal Plain. The Downey Plain is bordered by the La Brea, Montebello, and Santa Fe Spring Plains, and the Coyote hills to the north and northeast, the Newport Inglewood uplift to the southwest, and the Coastal Plain of Orange County to the southeast (DWR, 1961). The Downey Plain slopes gently to the south with an average gradient of less than 18 feet per mile. The Site is located between the Downey Plain and the Santa Fe Springs Plain. The Santa Fe Springs Plain is located south of Whittier and east of the San Gabriel River, in the area of the City of Santa Fe Springs. The Santa Fe Springs Plain is a low, slightly rolling topographic feature and represents a continuation of the Coyote Hills Uplift to the southeast.

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The Coastal Plain of Los Angeles County is a deep groundwater reservoir filled by unconsolidated alluvial sands, gravels, clays, and silts. Fresh-water aquifers extend to depths of over 2,000 feet. The California Department of Water Resources (DWR) divided the coastal plain into four groundwater basins: the Santa Monica Basin, the West Coast Basin, the Hollywood Basin, and the Central Basin (DWR, 1961). The Site lies within the Central Basin, which is further divided into four parts for descriptive purposes: the Los Angeles Forebay Area, the Montebello Forebay Area, the Whittier Area, and the Central Basin Pressure Area.

The Site is located in the Central Basin Pressure Area. The Central Basin Pressure Area is called a "pressure area" because the aquifers within it are confined by aquicludes over most of the area. The major regional aquitards and aquifers beneath the Site occur in the Recent Alluvium, the Upper Pleistocene Lakewood Formation, and the Lower Pleistocene San Pedro Formation. Depth intervals for the major regional hydro-stratigraphic units (aquitards and aquifers) in the Site vicinity are presented in the table below:

Regional Hydro-stratigraphic Unit	Formation	Approximate Depth Intervals (feet below ground surface)
Bellflower Aquitard	Recent Alluvium	0 – 30
Gaspur	Recent Alluvium	30 – 65
Gage	Lakewood	65 – 110
Hollydale-Jefferson	San Pedro	110 - 130
Lynwood	San Pedro	130 – 210
Silverado	San Pedro	210 – 360
Sunnyside	San Pedro	360 - 610

1.1.2 Site Geology

The Site is underlain with artificial fill composed primarily of silt from the ground surface to an approximate depth of 7 feet below ground surface (bgs). At approximately 7 feet bgs a concrete pad is encountered, which is approximately four inches thick. Underlying the concrete pad is a silt and clay layer that extends to approximately 25 feet bgs. Below the silt and clay layer is a sand and gravelly



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sand layer that extends to at least 48 feet bgs (**Figure 4**). Both the silt and clay layer and the sand and gravel layer correspond to the Recent Alluvium.

1.1.3 Site Hydrogeology

In April 2006, first groundwater was detected between 34 and 38 feet bgs (approximately 112 feet MSL) and corresponds to the Gaspar Aquifer. In August 2006, water levels have since risen slightly to between 33 and 37 feet bgs. Groundwater flow varies between the south-southwest and south-southeast at an approximate gradient of 0.001 feet per foot (ft/ft).

1.2 Site Conceptual Model

In accordance with the Site conceptual model developed below, the subsurface at the Site and Site vicinity was previously divided into three operable units: Operable Unit 1 (OU-1), Operable Unit 2 (OU-2), and Operable Unit 3 (OU-3) (**Figure 4**). OU-1 consists of fill material underlying the Site from ground surface to the top of the buried concrete pad (approximately 7 feet below ground surface). OU-2 consists of on-Site soils and the first groundwater zone, from the base of the concrete pad to approximately 50 feet below ground surface (bgs). OU-3 consists of the off-Site soils and the first groundwater zone.

Fill material in OU-1 is impacted by petroleum hydrocarbons (C7 to C36), fuel volatile organic compounds (VOCs), probably representing pre-existing contamination from the former storage tank, and chlorinated solvent compounds, consistent with releases of tetrachloroethylene (PCE) from the APC facility.



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2. GROUNDWATER SAMPLING

2.1 Groundwater Gauging and Sampling Procedures

Well construction details for the four groundwater monitoring wells (MW-1 through MW-4) are included in **Table 1**. On August 31, 2006, the four monitoring wells were gauged and then purged and sampled. Following gauging, the wells were purged of at least three well volumes of water, allowed to recover, and then sampled using an electric submersible pump. Groundwater gauging and sampling field notes are provided in **Appendix A**.

2.2 Waste Disposal

Waste generated as part of this investigation included purged groundwater and decontamination water used during sampling. Water was contained in one Department of Transportation (DOT) approved 55-gallon drum and temporarily stored at the Site prior to disposal. The drum of groundwater and decontamination water will be removed from the Site and transported to a suitable off-Site disposal facility by a licensed non-hazardous waste hauler.

2.3 Quality Assurance/Quality Control Sampling

Field quality assurance/quality control (QA/QC) samples were collected on August 31, 2006, during groundwater sampling activities. An equipment rinsate blank was collected from the electric submersible pump by running distilled water through the pump into three 40-milliliter (ml) volatile organic analysis (VOA) vials. A field blank was collected by filling three 40 ml VOA vials with distilled water, leaving them exposed to ambient air during collection of the equipment blank, and then sealing them. A trip blank, consisting of two sealed 40 ml VOA vials with distilled water, was obtained from the laboratory and kept in the ice-chest throughout the day to evaluate if there was any introduction of contaminants during storage and transportation.

2.4 Laboratory Analyses

Monitoring well groundwater samples and QA/QC samples were labeled, placed in an ice chest, and delivered under chain of custody to Sierra Analytical Inc. of Laguna Hills, California, within 24 hours of collection. The samples were analyzed for the following:



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- Total petroleum hydrocarbons (TPH), ranging from C7 to C36, in accordance with United States Environmental Protection Agency (USEPA) Method 8015B; and
- VOCs in accordance with USEPA Method 8260B.



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3. GROUNDWATER RESULTS

3.1 Groundwater Results

Groundwater depths in the four monitoring wells ranged from 33.03 to 37.04 feet bgs (**Table 2**). During this sampling event, groundwater flow was generally towards the south-southeast at a gradient of 0.0009 ft/ft (**Figure 3**).

A sheen of light non-aqueous phase liquid (LNAPL) was observed on the water level probe in three of the wells, MW-1, MW-2, and MW-4. Groundwater collected from well MW-3 had a hydrocarbon odor, but no LNAPL was observed.

Groundwater gauging and laboratory analytical results are provided in **Tables 2 and 3**, respectively. The complete laboratory report, including chain of custody and laboratory QA/QC analyses, is provided in **Appendix B**.

Petroleum hydrocarbons were detected in groundwater in four monitoring wells, MW-1, MW-2, MW-3, and MW-4 (**Figure 6**); however, the TPH concentrations in every well were significantly less than the previously recorded April concentrations. The maximum concentration of TPH decreased from 65 milligrams per liter (mg/L) in April to 16 mg/L in well MW-1 (**Table 3**). The minimum TPH concentration also decreased, from 46 mg/L to 2.1 mg/L in well MW-3. The lateral distribution of TPH in groundwater for this sampling event is depicted in **Figure 4**.

Chlorinated solvents were detected in every well (**Figure 7**). Since April 2006, the concentration of trichloroethene (TCE) in upgradient well MW-1 have increased from 1.3 micrograms per liter (ug/L) to 21 ug/L. Vinyl chloride (VC) concentrations in groundwater collected from well MW-1 have decreased from 20 ug/L in April 2006 to 9.9 ug/L in August. Otherwise, chlorinated solvent concentrations in groundwater collected from wells MW-1 through MW-4 have remained fairly constant.

3.2 QA/QC Analytical Results

The results of QA/QC sample analyses are provided in **Table 4**. Groundwater laboratory QA/QC samples for TPH and chlorinated solvents were generally within acceptable levels. A review of the laboratory analytical report indicates that all internal laboratory QA/QC calibration checks, matrix spike, and matrix spike duplicate recoveries were within acceptable ranges (**Appendix B**). Chlorinated



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solvents and TPH were not detected in the equipment rinsate blank, field blank or trip blank. However, chloroform was detected in the field blank at the reporting limit of 1.0 ug/L. Chloroform is a common lab contaminant and was not detected in any of the groundwater samples. In addition, isopropylbenzene was detected at 2.3 ug/L in the equipment blank. The isopropylbenzene concentration was considered insignificant since concentrations of isopropylbenzene detected in groundwater were 25 times greater than the concentration detected in the equipment blank. During this sampling event, the equipment blank was collected from the sampling pump. The pump was cleaned before sampling and between each well by pumping it with water from a three bucket decon rinse system: the first bucket contained distilled water and a non-phosphate detergent, and the second and third bucket contained tap water only. Groundwater results are deemed acceptable for the following reasons: standard decontamination practices were followed, chlorinated solvents are the primary contaminants of concern, and they were not detected in any of the sampling blanks.



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4. CONCLUSIONS AND RECOMMENDATIONS

4.1 Conclusions

In August 2006, groundwater flow beneath the Site was towards the south-southeast at a gradient of 0.0009 ft/ft, and depth to groundwater ranged from 33.03 to 37.04 feet bgs (113.73 to 113.90 feet MSL).

In August 2006, the TPH concentrations detected in groundwater beneath the Site have generally decreased. TCE concentrations collected in groundwater from upgradient well MW-1 have generally increased and VC concentrations have decreased. Otherwise, chlorinated solvent concentrations detected in groundwater collected from wells MW-1 through MW-4 have remained fairly constant.

4.2 Recommendations

In accordance with the DTSC's request, three additional quarterly groundwater sampling events should be conducted to analyze the contaminant trends.



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5. CLOSURE

We trust that this report satisfies your current requirements and provides suitable documentation for your records. If you have any questions or require further details, please contact the undersigned at any time.

Respectfully Submitted:

WorleyParsons Komex

Lindsay Masters

Staff Geologist

Senior Review by

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Project Manager



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6. REFERENCES

DWR, 1961. Planned Utilization of the Ground Water Basins of the Coastal Plain of Los Angeles County. Bulletin No. 104. Appendix A Ground Water Geology. State of California Department of Water Resources Southern District. Dated June 1961.



Table 1

Monitoring Well Construction Details

Associated Plating Company

Well ID	Drilling Method	Installation Date	Well Casing Diameter (inches)	Latitude	Longitude	Wellhead Elevation (feet amsl)	Top of Casing Elevation (ft amsl)	Well Depth (feet bgs)	Well Depth (feet amsl)	Screen Slot Size (inches)	Screened Interval (feet bgs)	Screened Interval (feet amsl)
MW-1	HSA	4/5/2006	2	33.9527753	-118.05925	147.36	146.93	43.0	103.9	0.01	33 to 43	114.35 to 104.35
MW-2	HSA	4/5/2006	2	33.9524570	-118.05920	149.81	149.41	47.0	102.4	0.01	37 to 47	112.79 to 102.79
MW-3	HSA	4/6/2006	2	33.9523123	-118.05931	151.06	150.67	47.0	103.7	0.01	37 to 47	114.04 to 104.04
MW-4	HSA	4/6/2006	2	33.9522795	-118.05949	151.13	150.77	47.0	104.1	0.01	37 to 47	114.13 to 104.13

Notes:

- 1) amsl = above mean sea level
- 2) bgs = below ground surface
- 3) HSA = hollow stem auger



Table 2

Groundwater Elevations

Associated Plating Company

Well ID	Top of Casing Elevation (feet amsl)	Date	Depth to Groundwater (feet btoc)	Groundwater Elevation (feet amsl)
MW-1	146.93	04/12/06	34.33	112.60
		08/31/06	33.03	113.90
MW-2	149.41	04/12/06	36.87	112.54
		08/31/06	35.62	113.79
MW-3	150.67	04/12/06	38.20	112.47
		08/31/06	36.89	113.78
MW-4	150.77	04/12/06	38.36	112.41
		08/31/06	37.04	113.73

Notes:

- 1) bgs = Below ground surface
- 2) amsl = above mean sea level
- 3) btoc = below top of casing

**Table 3****TPH Carbon Range Groundwater Results
Associated Plating Company**

Analyte	Units	MW-1	MW-1	MW-2	MW-2	MW-3	MW-3	MW-4	MW-4
		4/12/06	8/31/06	4/12/06	8/31/06	4/12/06	8/31/06	4/12/06	8/31/06
<C8	mg/L	<0.10	<0.10	<1.0	0.11	<1.0	0.051	<1.0	0.084
C8-C9	mg/L	<0.10	<0.10	<1.0	0.040	<1.0	0.014	<1.0	0.031
C9-C10	mg/L	<0.10	<0.10	1.1	0.073	<1.0	0.030	<1.0	0.056
C10-C11	mg/L	0.33	0.13	2.0	0.16	<1.0	0.076	<1.0	0.13
C11-C12	mg/L	0.66	0.20	2.8	0.14	<1.0	0.087	<1.0	0.17
C12-C14	mg/L	5.1	1.2	5.9	0.70	<1.0	0.26	1.8	0.40
C14-C16	mg/L	6.7	1.6	5.8	0.76	1.5	0.34	5.4	0.56
C16-C18	mg/L	6.8	1.6	5.0	0.63	<1.0	0.24	4.4	0.39
C18-C20	mg/L	4.1	0.94	3.6	0.54	1.1	0.19	4.0	0.27
C20-C24	mg/L	12	2.4	7.0	1.1	<1.0	0.29	5.2	0.48
C24-C28	mg/L	16	4.2	7.1	1.3	2.6	0.31	9.6	0.57
C28-C32	mg/L	12	3.9	10	1.1	35	0.23	27	0.46
>C32	mg/L	0.65	0.28	3.5	0.046	4.3	0.015	2.6	0.030
Total C7-C36	mg/L	65	16	54	6.7	46	2.1	60	3.6

Notes:

- 1) TPH = total petroleum hydrocarbons (carbon range) analyzed using EPA Method 8015B
- 2) mg/L = milligrams per liter
- 3) <0.10 = compound not detected at or above the indicated laboratory reporting limit
- 4) Bold type indicates compound was detected.



Table 4
VOC Groundwater Results
Associated Plating Company

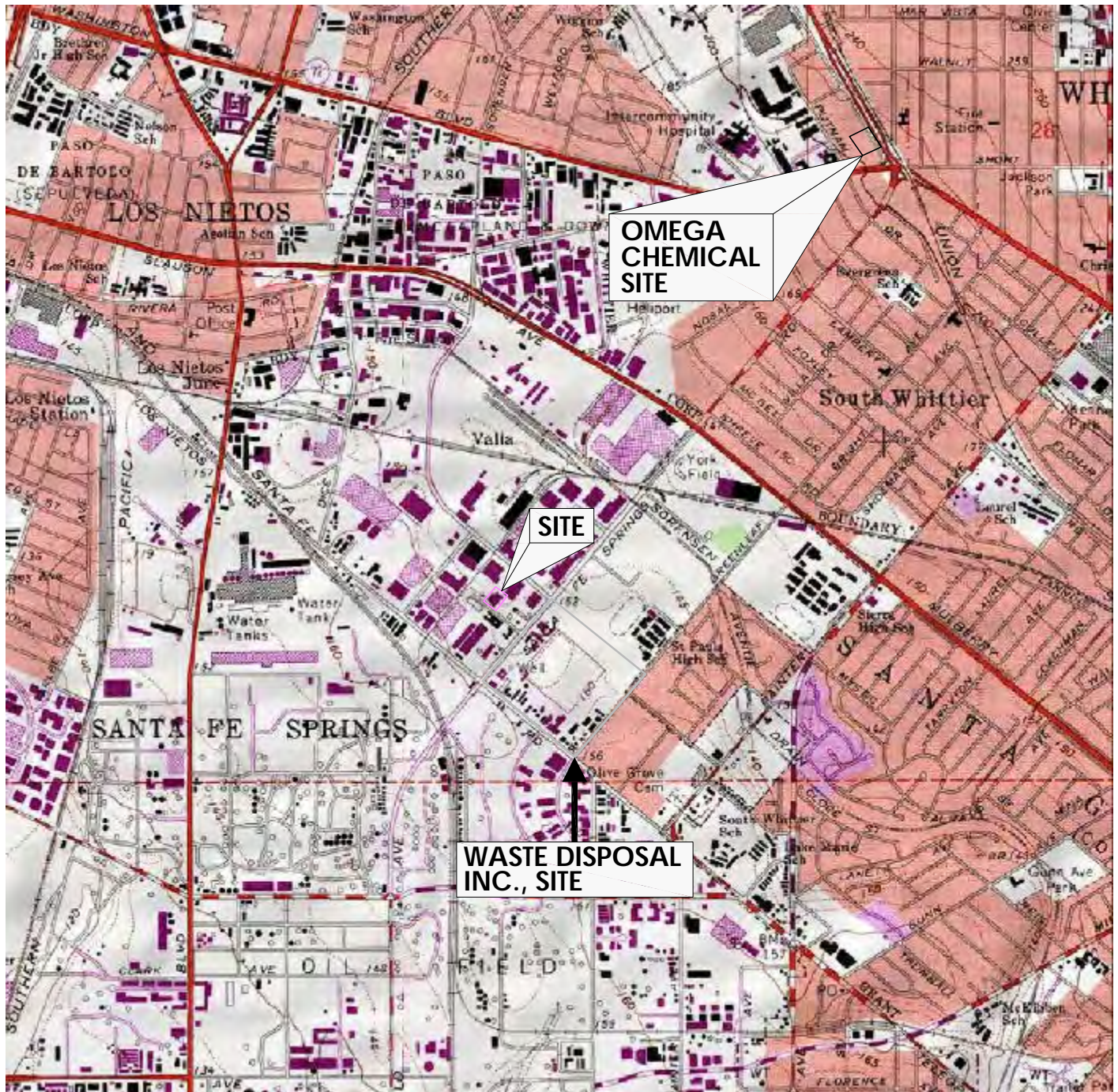
Analyte	Units	Location	MW-1	MW-1	MW-2	MW-2	MW-3	MW-3	MW-4	MW-4
		Date	4/12/06	8/31/06	4/12/06	8/31/06	4/12/06	8/31/06	4/12/06	8/31/06
1,1,1,2-Tetrachloroethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	ug/L		<1.0	<1.0	1.1	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethylene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropylene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	ug/L		<5.0	<1.0	<5.0	<1.0	<5.0	<1.0	<5.0	<1.0
1,2,4-Trichlorobenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	ug/L		<1.0	<1.0	<1.0	<1.0	23	3.4	<1.0	<1.0
1,2-Dibromo-3-Chloropropane (DBCP)	ug/L		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	ug/L		<1.0	<1.0	<1.0	<1.0	6.3	1.2	<1.0	<1.0
1,3-Dichlorobenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Chlorotoluene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Phenylbutane	ug/L		<1.0	<1.0	16	12	16	11	16	13
4-Chlorotoluene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzene	ug/L		1.3	<1.0	2.3	3.1	2.0	3.7	3.6	7.6
Bromobenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	ug/L		<5.0	<1.0	<5.0	<1.0	<5.0	<1.0	<5.0	<1.0
Butylbenzene,n-	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon Tetrachloride	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CFC-11	ug/L		<5.0	<1.0	<5.0	<1.0	<5.0	<1.0	<5.0	<1.0
CFC-12	ug/L		<5.0	<1.0	<5.0	<1.0	<5.0	<1.0	<5.0	<1.0
Chlorobenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobromomethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodibromomethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	ug/L		<5.0	<1.0	<5.0	<1.0	<5.0	<1.0	<5.0	<1.0
Chloroform	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	ug/L		<5.0	<1.0	<5.0	<1.0	<5.0	<1.0	<5.0	<1.0
cis-1,2-Dichloroethene (cis 1,2-DCE)	ug/L		5.5	8.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cymene	ug/L		3.2	1.8	4.1	3.2	1.4	<1.0	4.1	<1.0
Dibromomethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Diisopropyl Ether (DIPE)	ug/L		--	<1.0	--	<1.0	--	<1.0	--	<1.0
Ethylbenzene	ug/L		<1.0	<1.0	<1.0	<1.0	21	3.1	1.5	<1.0
Ethyl-tert-butyl Ether (ETBE)	ug/L		--	<1.0	--	<1.0	--	<1.0	--	<1.0
Hexachloro-1,3-Butadiene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Isopropylbenzene	ug/L		1.9	<1.0	75	57	83	74	86	87
Methylene Chloride	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl-tert-Butyl Ether (MTBE)	ug/L		8.9	2.0	3.5	3.0	1.9	2.2	3.0	2.8
Naphthalene	ug/L		1.6	<1.0	16	12	46	8.7	4.5	1.9
Propylbenzene,n-	ug/L		<1.0	<1.0	9.4	3.5	22	5.3	10	8.9
Styrene (Monomer)	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
tert-amyl-methyl Ether (TAME)	ug/L		--	<1.0	--	<1.0	--	<1.0	--	<1.0
tert-butyl Alcohol (TBA)	ug/L		--	<5.0	--	<5.0	--	<5.0	--	<5.0
tert-Butylbenzene	ug/L		1.6	<1.0	1.9	1.7	<1.0	3.4	<1.0	1.4
Tetrachloroethene (PCE)	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.7	1.2
Toluene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	1.6	<1.0	<1.0
trans-1,2-Dichloroethene	ug/L		5.2	3.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tribromomethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene (TCE)	ug/L		1.3	21	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl Chloride (VC)	ug/L		20	9.9	50	47	53	58	57	54
Xylene, O-	ug/L		<1.0	<1.0	<1.0	<1.0	2.6	<1.0	<1.0	<1.0
Xylene, P-, M-	ug/L		<1.0	<1.0	<1.0	<1.0	28	3.1	<1.0	<1.0

- Notes:
- 1) VOC = volatile organic compounds analyzed using EPA Method 8260B
 - 2) ug/L = micrograms per liter
 - 3) <1.0 = compound not detected at or above the indicated laboratory reporting limit
 - 4) -- = not analyzed
 - 5) Bold type indicates compound was detected.

Table 5
Field Quality Assurance/Quality Control Sample Results
Associated Plating Company

		Sample Type	Equipment Blank		Field Blank		Trip Blank	
		Sample Date	4/12/06	8/31/06	4/12/06	8/31/06	4/12/06	8/31/06
Analyte	Units	Sample ID	EB-41206	EB083106	FB-41206	FB083106	TB-41206	TB083106
TPH - Carbon Range								
>C32	mg/L		<0.010	<0.010	<0.010	<0.010	--	--
Total C7-C36	mg/L		<0.050	<0.050	<0.050	<0.050	--	--
C28-C32	mg/L		<0.010	<0.010	<0.010	<0.010	--	--
C24-C28	mg/L		<0.010	<0.010	<0.010	<0.010	--	--
C20-C24	mg/L		<0.010	<0.010	<0.010	<0.010	--	--
C18-C20	mg/L		<0.010	<0.010	<0.010	<0.010	--	--
C16-C18	mg/L		<0.010	<0.010	<0.010	<0.010	--	--
C12-C14	mg/L		<0.010	<0.010	<0.010	<0.010	--	--
C11-C12	mg/L		<0.010	<0.010	<0.010	<0.010	--	--
C10-C11	mg/L		<0.010	<0.010	<0.010	<0.010	--	--
C9-C10	mg/L		<0.010	<0.010	<0.010	<0.010	--	--
C8-C9	mg/L		<0.010	<0.010	<0.010	<0.010	--	--
C14-C16	mg/L		<0.010	<0.010	<0.010	<0.010	--	--
<C8	mg/L		<0.010	<0.010	<0.010	<0.010	--	--
VOCs								
2-Phenylbutane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Chlorotoluene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromoethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-Chloropropane (DBCP)	ug/L		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trimethylbenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	ug/L		<5.0	<1.0	<5.0	<1.0	<5.0	<1.0
1,2,3-Trichlorobenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethylene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1,2-Tetrachloroethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropylene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene (PCE)	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Isopropylbenzene	ug/L		<1.0	2.3	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl-tert-Butyl Ether (MTBE)	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Propylbenzene,n-	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene (Monomer)	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
tert-amyl-methyl Ether (TAME)	ug/L		--	<1.0	--	<1.0	--	<1.0
4-Chlorotoluene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tribromomethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene (TCE)	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl Chloride (VC)	ug/L		<5.0	<1.0	<5.0	<1.0	<5.0	<1.0
Xylene, O-	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
tert-butyl Alcohol (TBA)	ug/L		--	<5.0	--	<5.0	--	<5.0
Chloroethane	ug/L		<5.0	<1.0	<5.0	<1.0	<5.0	<1.0
Bromodichloromethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	ug/L		<5.0	<1.0	<5.0	<1.0	<5.0	<1.0
Butylbenzene,n-	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon Tetrachloride	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CFC-11	ug/L		<5.0	<1.0	<5.0	<1.0	<5.0	<1.0
CFC-12	ug/L		<5.0	<1.0	<5.0	<1.0	<5.0	<1.0
Chlorobenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachloro-1,3-Butadiene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodibromomethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethyl-tert-butyl Ether (ETBE)	ug/L		--	<1.0	--	<1.0	--	<1.0
Chloroform	ug/L		<1.0	<1.0	<1.0	1.0	<1.0	<1.0
Chloromethane	ug/L		<5.0	<1.0	<5.0	<1.0	<5.0	<1.0
cis-1,2-Dichloroethene (cis 1,2-DCE)	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cymene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Diisopropyl Ether (DIPE)	ug/L		--	<1.0	--	<1.0	--	<1.0
Xylene, P-, M-	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobromomethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

- Notes:
- 1) TPH = total petroleum hydrocarbons (carbon range) analyzed using EPA Method 8015B
 - 2) VOCs = volatile organic compounds analyzed using EPA Method 8260B
 - 3) mg/L = milligrams per liter
 - 4) ug/L = micrograms per liter
 - 5) <1.0 = compound not detected at or above the indicated laboratory reporting limit
 - 6) Bold type indicates compound was detected.
 - 7) -- = not analyzed



Source: United States Geological Survey, "South Whittier,"
7.5 Minute Quadrangle, 1998



0 2,000

Approximate Scale in Feet

ASSOCIATED PLATING COMPANY
9636 ANN STREET, SANTA FE SPRINGS, CALIFORNIA

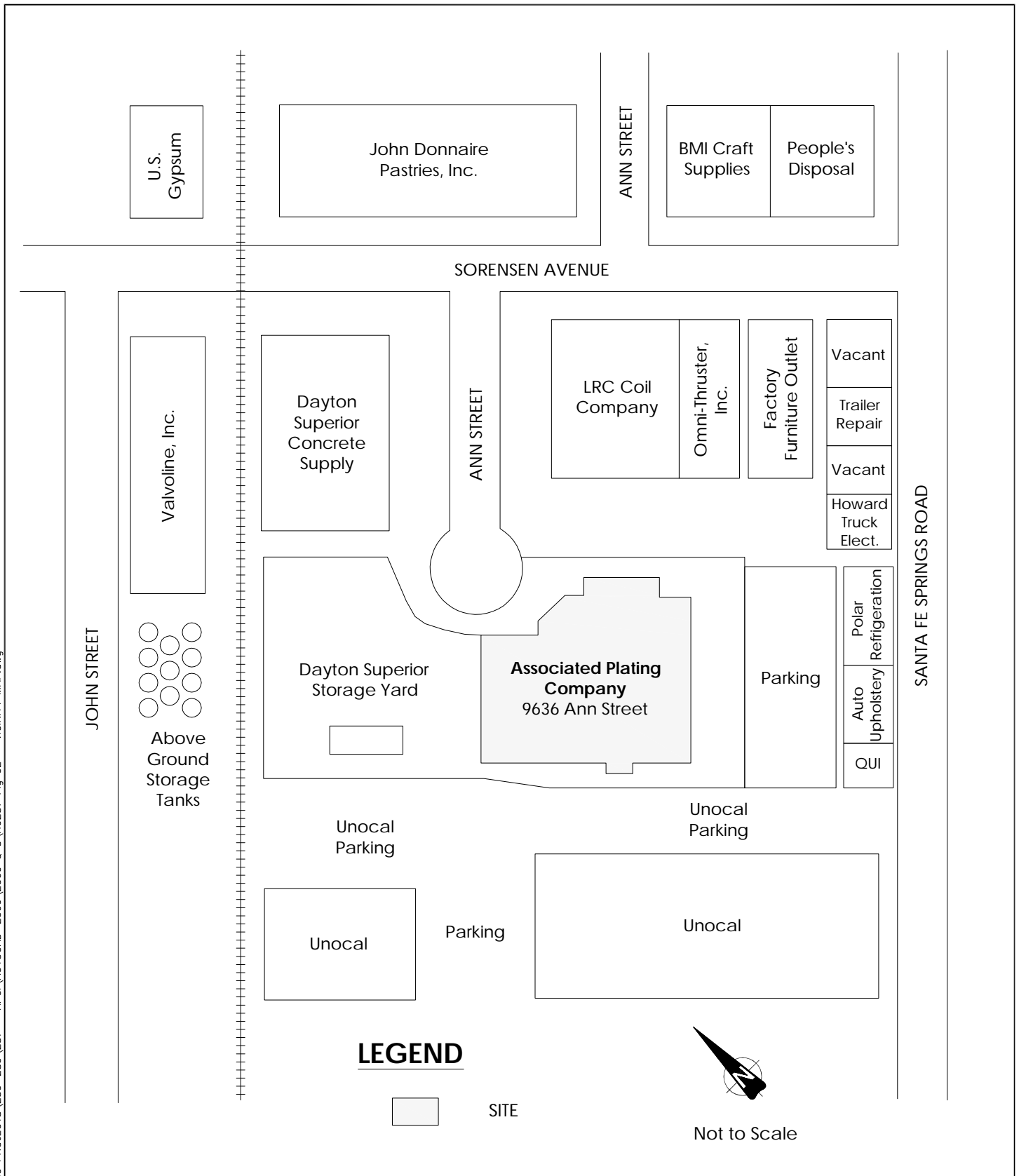


WorleyParsons Komex
resources & energy

SITE LOCATION MAP

DRAWN BY:	EDITED BY:	DATE:
JH	JH	10/2006
APPROVED:		
LP	1	

File name: X:\H2O PROJECTS\280-289\287 - APCI\AUTOCAD-2006\Q 3\H0287 Fig 02 - VICINITY MAP.dwg Date: 10/11/2006



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9636 ANN STREET, SANTA FE SPRINGS, CALIFORNIA

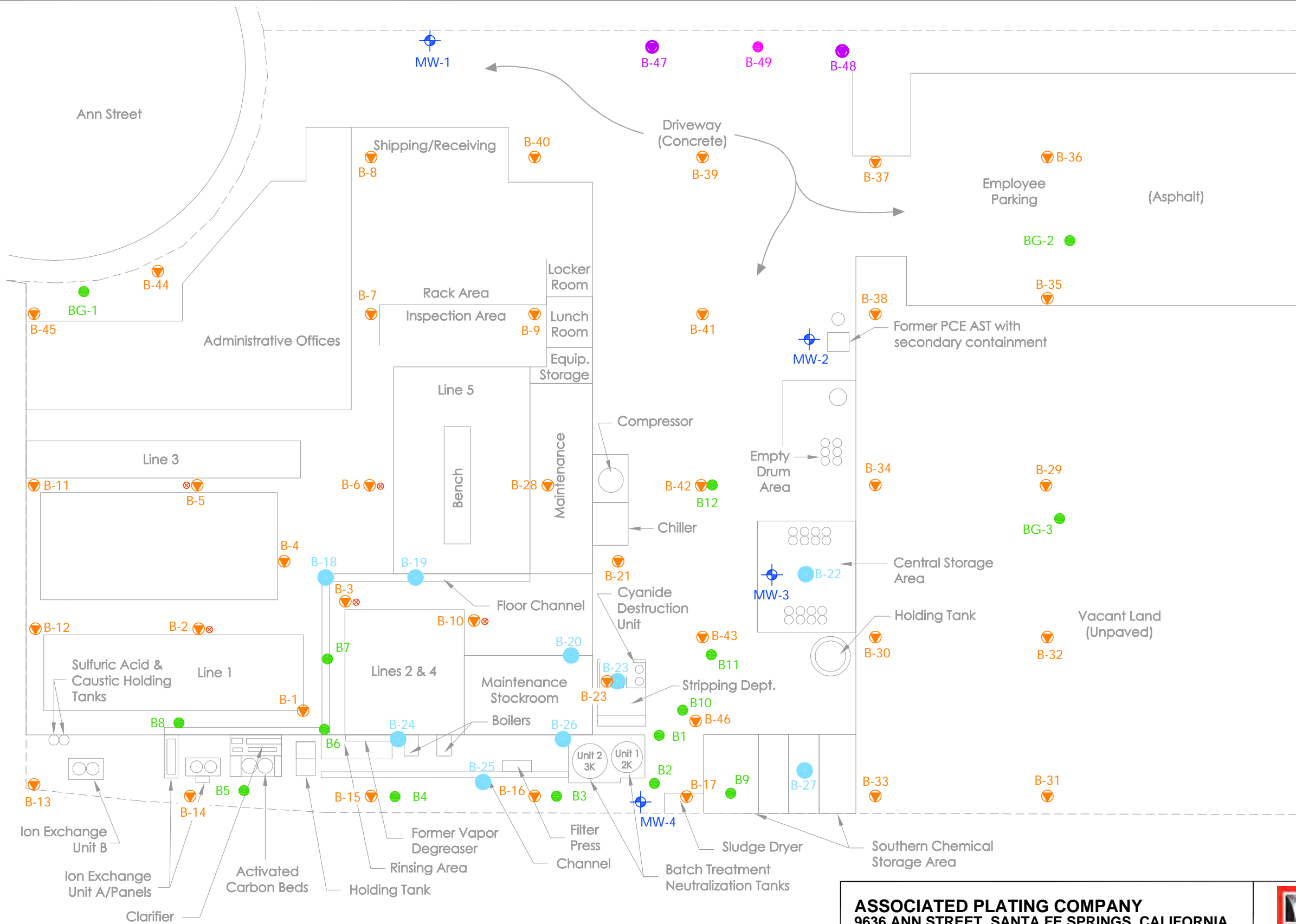


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SITE VICINITY MAP

DRAWN BY:	EDITED BY:	DATE:
JH	JH	10/2006
APPROVED:	2	
LP		

Date: 10/09/2006 File: X:\H2O PROJECTS\280-289\287 - APC\AUTOCAD-2006 Q 3\H0287 Fig 03 - MW LOCATIONS.dwg

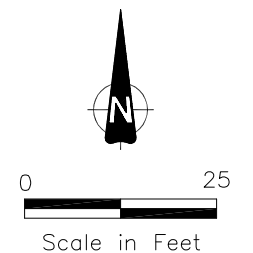


LEGEND

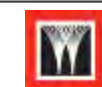
- WORLEYPARSONS KOMEX 2006 SOIL BOREHOLE LOCATION
- KOMEX 2004 SOIL BOREHOLE LOCATION
- URS SOIL BOREHOLE LOCATION
- WORLEYPARSONS KOMEX 2006 SOIL GAS SAMPLING LOCATION
- KOMEX 2004 SOIL GAS SAMPLING LOCATION
- ⊕ WORLEYPARSONS KOMEX 2006 MONITORING WELL LOCATION
- ⊗ SOIL SAMPLE LOCATION FOR METALS ANALYSIS

NOTE

1) ALL LOCATIONS ARE APPROXIMATE



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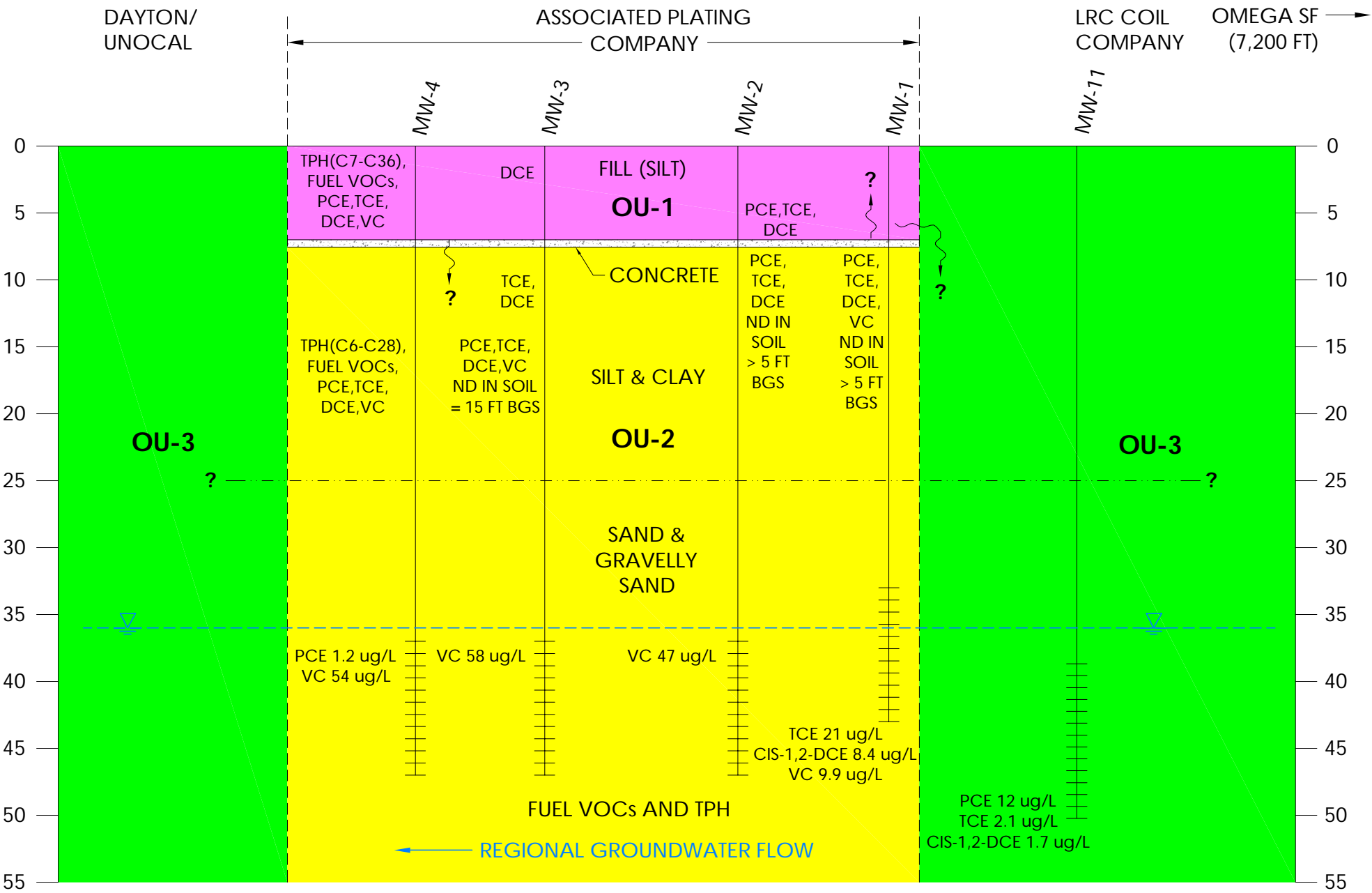
SITE PLAN SHOWING BOREHOLE AND MONITORING WELL LOCATIONS

DRAWN BY:	EDITED BY:	DATE:
JH	JH	10/2006
APPROVED:	3	
LP		

Date: 10/12/2006 File: X:\H2O PROJECTS\280-289\287 - APCI\AUTOCAD-2006\2006 Q 3\H0287 Fig 04 - SCM.dwg

SW

NE



LEGEND

- OU-1 (OPERABLE UNIT 1)
- OU-2 (OPERABLE UNIT 2)
- OU-3 (OPERABLE UNIT 3)
- POTENTIAL MIGRATION PATHWAYS
- WATER TABLE SURFACE
- LITHOLOGIC CONTACT
- GROUNDWATER MONITORING WELL SCREENED INTERVAL

- NOTES
- 1) ALL LOCATIONS ARE APPROXIMATE
 - 2) LNAPL = LIGHT NON-AQUEOUS PHASE LIQUID
 - 3) TPH = TOTAL PETROLEUM HYDROCARBONS
 - 4) VOCs = VOLATILE ORGANIC COMPOUNDS
 - 5) PCE = TETRACHLOROETHENE
 - 6) TCE = TRICHLOROETHENE
 - 7) DCE = DICHLOROETHENE
 - 8) VC = VINYL CHLORIDE
 - 9) ND = COMPOUND NOT DETECTED
 - 10) FT BGS = FEET BELOW GROUND SURFACE
 - 11) ug/L = MICROGRAMS PER LITER

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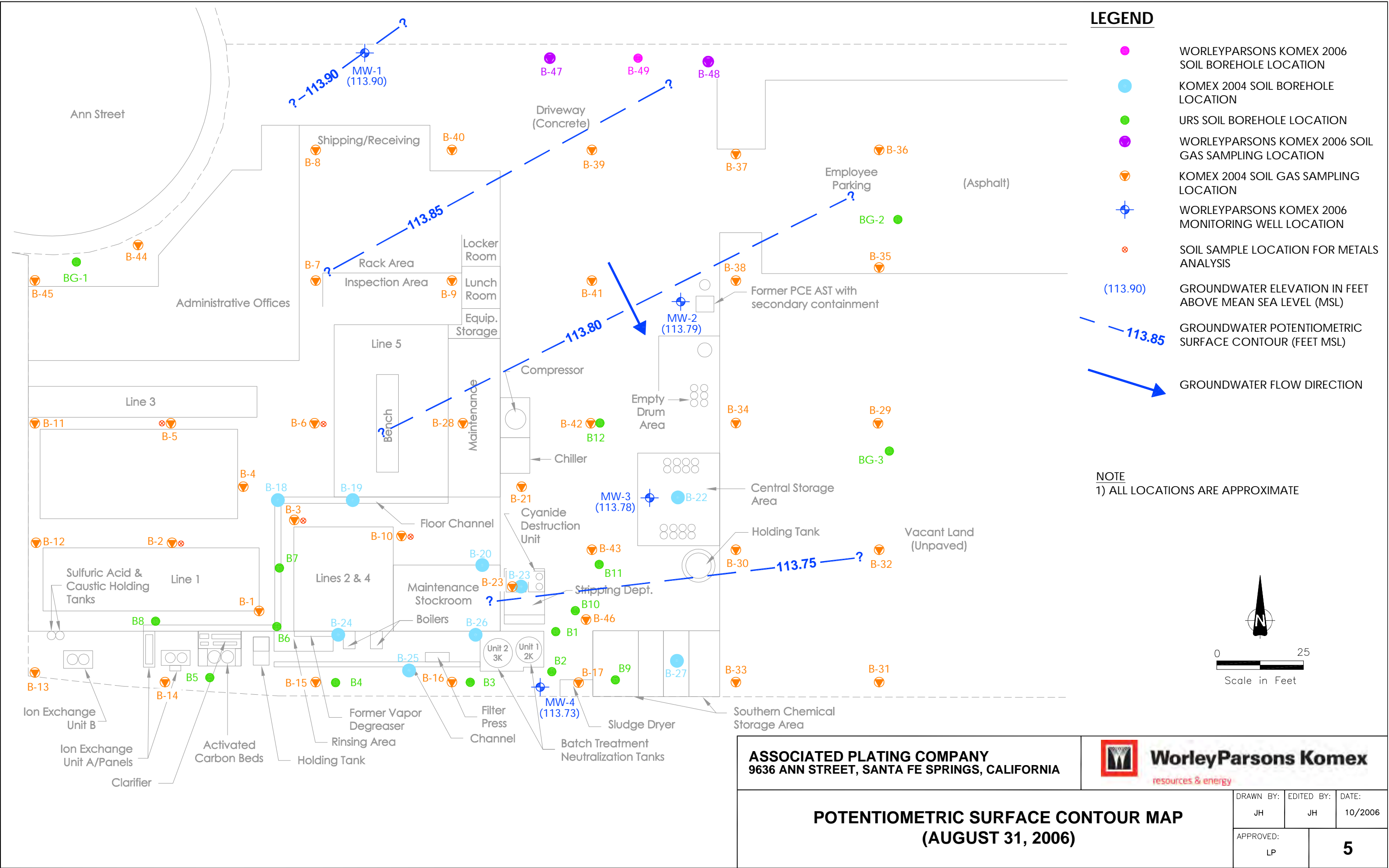


WorleyParsons Komex
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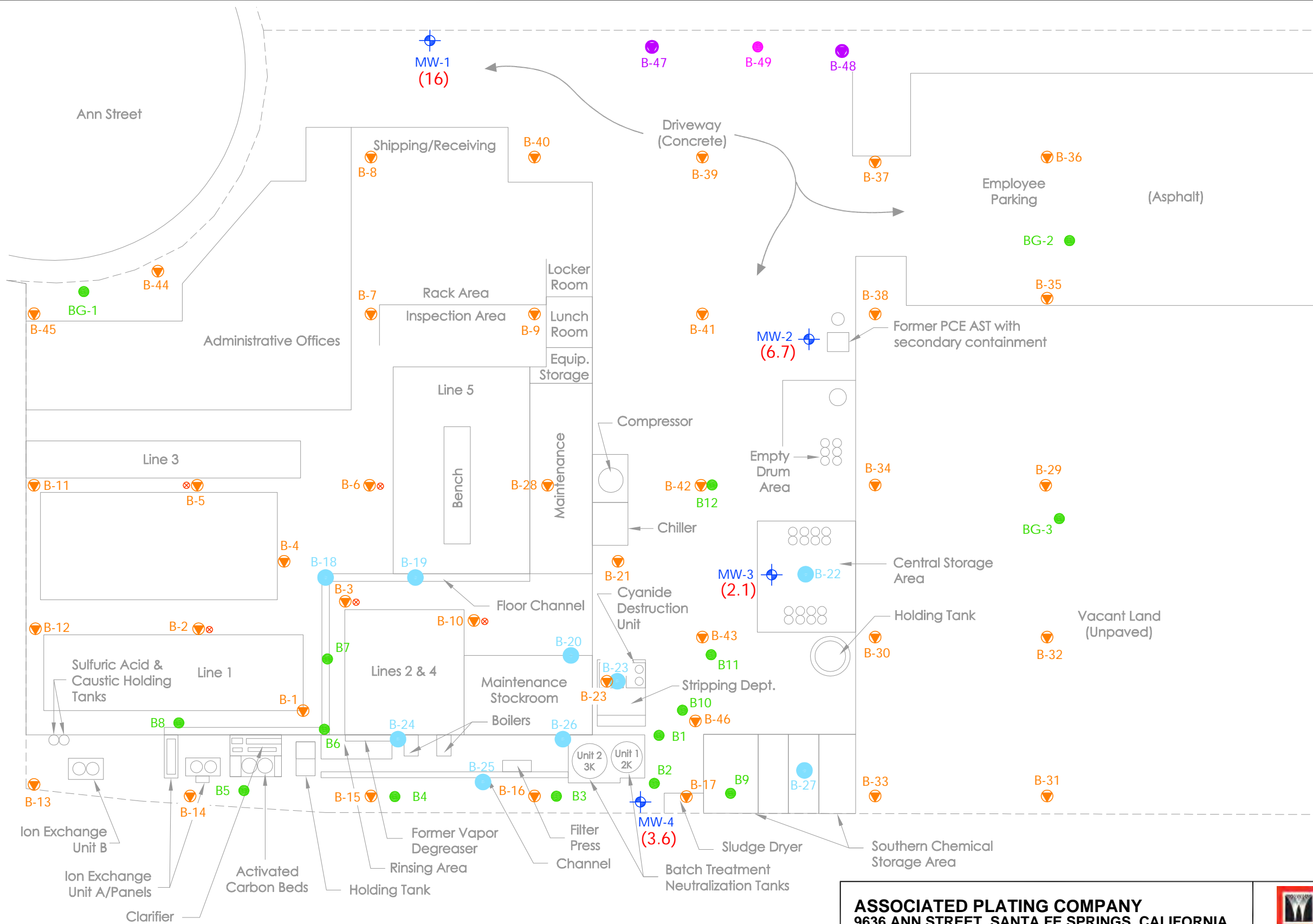
SITE CONCEPTUAL MODEL AND
PROPOSED OPERABLE UNITS

DRAWN BY:	EDITED BY:	DATE:
CT	JH	10/2006
APPROVED:	4	
LP		

Date: 10/11/2006 File: X:\H2O PROJECTS\280-289\287 - APC\AUTOCAD-2006 Q 3\H0287 Fig 05 - POTENTIO.dwg



Date: 10/09/2006 File: X:\H2O PROJECTS\280-289\287 - APC\AUTOCAD-2006 Q 3\H0287 Fig 06 - TPH IN GW.dwg

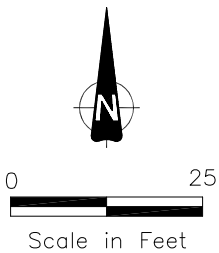


LEGEND

- WORLEYPARSONS KOMEX 2006 SOIL BOREHOLE LOCATION
 - KOMEX 2004 SOIL BOREHOLE LOCATION
 - URS SOIL BOREHOLE LOCATION
 - WORLEYPARSONS KOMEX 2006 SOIL GAS SAMPLING LOCATION
 - KOMEX 2004 SOIL GAS SAMPLING LOCATION
 - WORLEYPARSONS KOMEX 2006 MONITORING WELL LOCATION
 - ⊗ SOIL SAMPLE LOCATION FOR METALS ANALYSIS
- (3.6) TPH CONCENTRATION IN MILLIGRAMS PER LITER (mg/L)

NOTES

- 1) ALL LOCATIONS ARE APPROXIMATE
- 2) TPH = TOTAL PETROLEUM HYDROCARBONS



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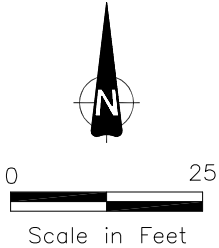
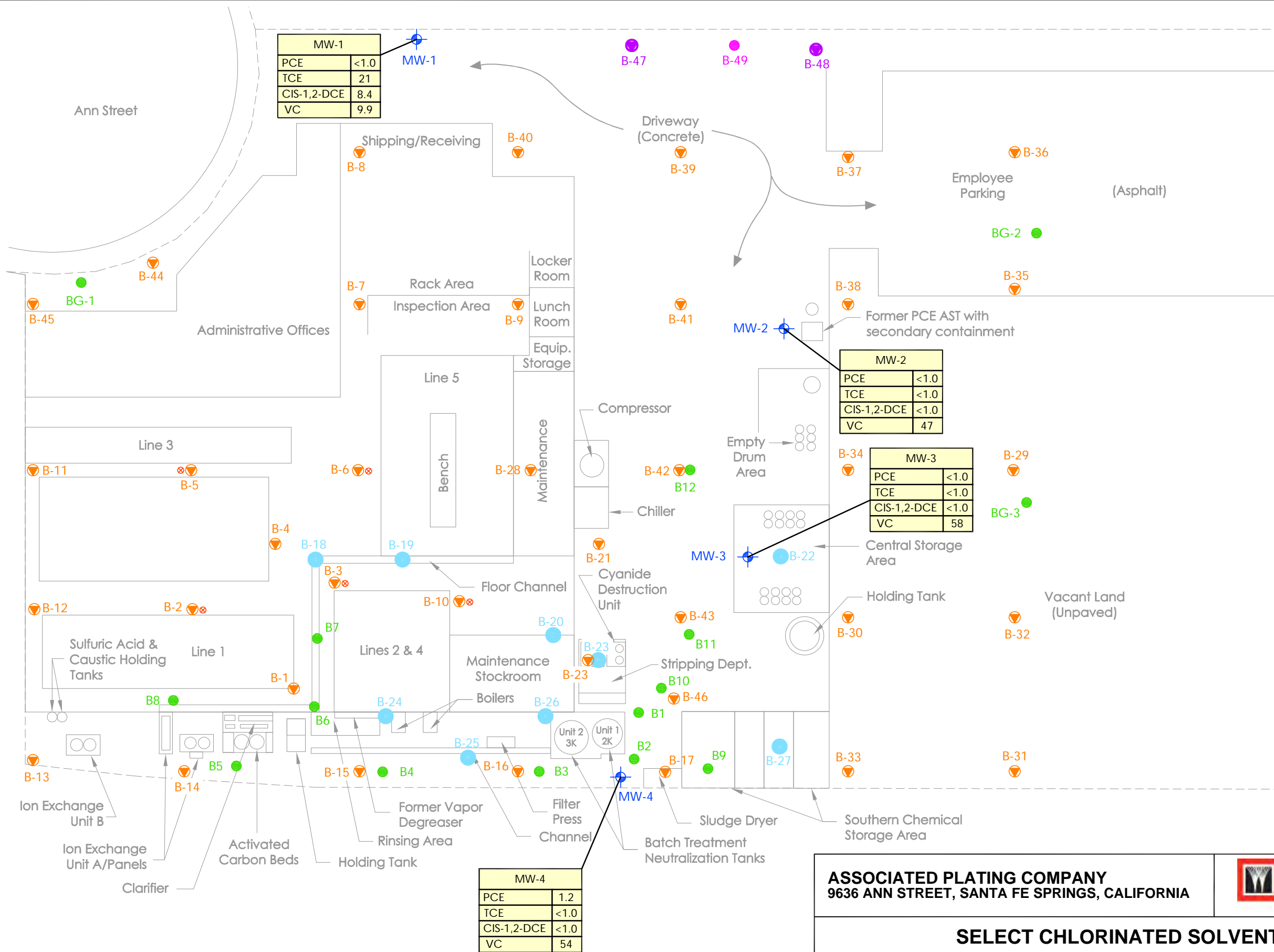


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TPH CONCENTRATIONS IN GROUNDWATER
(AUGUST 2006)

DRAWN BY:	EDITED BY:	DATE:
JH	JH	10/2006
APPROVED:	6	
LP		

Date: 10/09/2006 File: X:\H2O PROJECTS\280-289\287 - APC\AUTOCAD-2006 Q 3\H0287 Fig 07 - VOCs IN GW.dwg



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**SELECT CHLORINATED SOLVENT
CONCENTRATIONS IN GROUNDWATER
(AUGUST 2006)**

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JH	JH	10/2006
APPROVED:		7
LP		



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ASSOCIATED PLATING COMPANY

THIRD QUARTER 2006 GROUNDWATER MONITORING REPORT

ASSOCIATED PLATING COMPANY, 9636 ANN STREET, SANTA FE SPRINGS, CALIFORNIA

Appendix A Monitoring Well Sampling Forms



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5455 GARDEN GROVE BLVD., SECOND FLOOR
WESTMINSTER, CA 92683-8201, USA
TEL: 714.379.1157 FAX: 714.379.1160

MONITORING WELL SAMPLING FORM

Project Name: APC	Date: 8/24/06
Project No.: H02870020	Time: 4:00
Employee Name: LP + RH	Page 1 of 1

WELL CONSTRUCTION DETAILS		WELL NO: MW-1
DATES	Casing Type: PVC	Screen Type:
Constructed:	Diameter: 2"	Diameter:
Developed:	Length:	Length:
Last Sampled:	T.D.: 43	Slot Size:

WELL CONDITION: good		Water Depth: 33.03
G.S. Elev.:	Water Depth:	F.P. Thickness:
T.C. Elev.:	Water Column: 9.97	Water Odor:
W.L. Elev.:	Casing Volume: 1.6	Turbidity:
Note: 2" = 0.16 g/ft; 4" = 0.65 g/ft; and 6" = 1.5 g/ft		

Well Purging Method: monsoon pump	Purge Vol.: 4.8
-----------------------------------	-----------------

LOCATION SKETCH:

See site map

a few drops of free product on the probe but not of measurable quantity

WELL PURGING AND RECOVERY ANALYSIS: pc mslcm nt4											
Time	W.L.	Purge Rate	Vol.	Temp.	pH	Conduct.	Turbid.	D.O.	ORP	Sample No.	REMARKS
9:06	33.02	2.1 g/min	1	21.7	6.02	2.99	999	X			
9:07	33.25		1.2	22.9	6.52	1.94	999				
9:08			2	22.9	6.59	1.93	999				
9:10	33.05		3	22.9	6.48	1.91	999				
9:15	33.05		4	22.8	6.50	1.90	999				
9:17	33.05	✓	4.8					X			

SAMPLING INFORMATION:

Sample No.	Time	Sampling Method	Container	Analysis Required
MW1083106	9:20	pump	Wass 1 L Amber	VOCs + TPH extended range

ADDITIONAL INFORMATION:

43.00
 33.03
 = 9.97
 1.6
 154.82
 9970
 154.82

1.60
 2.3
 4.10



WorleyParsons Komex

resources & energy

5455 GARDEN GROVE BLVD., SECOND FLOOR

WESTMINSTER, CA 92683-8201, USA

TEL: 714.379.1157 FAX: 714.379.1160

MONITORING WELL SAMPLING FORM

Project Name: APC	Date: 8/21/06
Project No.: H028700220	Time: 9:35
Employee Name: LP + RH	Page 1 of 1

WELL CONSTRUCTION DETAILS		WELL NO: MW-2
DATES	Casing Type: PVC	Screen Type:
Constructed:	Diameter: 2"	Diameter:
Developed:	Length:	Length:
Last Sampled:	T.D.: 47	Slot Size:

LOCATION SKETCH:

See site map

Wells crusts lids are slightly rusty

55-00

A few drops of free product on the probe but not measurable

WELL CONDITION:		Water Depth: 35.62
G.S. Elev.:	Water Depth: 35.62	F.P. Thickness:
T.C. Elev.:	Water Column: 11.38	Water Odor:
W.L. Elev.:	Casing Volume: 82	Turbidity:

Note: 2" = 0.16 g/ft; 4" = 0.65 g/ft; and 6" = 1.5 g/ft

Well Purging Method: Hanson pump	Purge Vol.: 225.5
----------------------------------	-------------------

WELL PURGING AND RECOVERY ANALYSIS: ^{OC} ^{ms/cm} ^{ntu}											
Time	W.L.	Purge Rate	Vol.	Temp.	pH	Conduct.	Turbid.	D.O.	ORP	Sample No.	REMARKS
9:40	35.54										
9:41	36.30	0.5	0.1	24.2	7.13	1.738	267				
9:42		0.5	1	23.4	6.79	1.55	999				
9:43	36.38		2	23.5	6.81	1.55	942				
9:44	36.37	0.7	3	23.3	6.77	1.54	683				
9:45	36.35	0.8	4	23.4	6.76	1.61	391				
9:46		0.9	5	23.4	6.76	1.62	366				
9:47	36.39	4	5.5	23.2	6.74	1.63	242				

w/pump
Purging

SAMPLING INFORMATION:

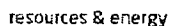
Sample No.	Time	Sampling Method	Container	Analysis Required
MW2082906	9:49	Hanson pump	Vials + 16 Amber	VOCs + TPH extended range

ADDITIONAL INFORMATION:

$$\begin{array}{r}
 47.00 \\
 - 35.62 \\
 \hline
 11.38 \\
 + 1.6 \\
 \hline
 12.98
 \end{array}$$

$$\begin{array}{r}
 1.73 \\
 + 3 \\
 \hline
 4.73
 \end{array}$$

$$\begin{array}{r}
 4.73 \\
 + 1.4204 \\
 \hline
 6.1504
 \end{array}$$



TEL.: 714.379.1157 FAX.: 714.379.1160

Project Name: APC	Date: 8/29/06
Project No.: H0287D030	Time: 10:11
Employee Name: LP:RH	Page 1 of 1

WELL CONSTRUCTION DETAILS		WELL NO: MW-3
DATES	Casing Type: PVC	Screen Type:
Constructed:	Diameter: 2"	Diameter:
Developed:	Length:	Length:
Last Sampled:	T.D.: 47	Slot Size:

LOCATION SKETCH:

See site map

WELL CONDITION: <i>good</i>		Water Depth: <i>36.89</i>	
G.S. Elev.:	Water Depth:	F.P. Thickness:	<i>no log</i>
T.C. Elev.:	Water Column: <i>10.11</i>	Water Odor:	<i>hydrocarbon</i>
W.L. Elev:	Casing Volume: <i>1.62</i>	Turbidity:	
Note: 2" = 0.16 g/ft; 4" = 0.65 g/ft; and 6" = 1.5 g/ft			

→ near on the probe
odor

Well Purging Method: Purge Purge Vol.: 1-5 gal[illegible]

W/pump
pumpers

SAMPLING INFORMATION:				
Sample No.	Time	Sampling Method	Container	Analysis Required
MV3082906	10:21	permeameter pump	VOCs + 14 Ambr	VOCs + TPIT extended range

[illegible]
$$\begin{array}{r} 47.00 \\ 36.89 \\ \hline 10.11 \\ \text{y.16} \\ \hline 60060 \\ 10110 \\ \hline 16176 \end{array}$$

5455 GARDEN GROVE BLVD., SECOND FLOOR

WESTMINSTER, CA 92683-8201, USA

TEL.: 714.379.1157 FAX.: 714.379.1160

MONITORING WELL SAMPLING FORM

Project Name: APC	Date: 8/24/06
Project No.: H0287D020	Time: 1:30
Employee Name: P. R. H.	Page 2 of 1

WELL CONSTRUCTION DETAILS		WELL NO: MH-1
DATES	Casing Type: PVC	Screen Type:
Constructed:	Diameter: 2"	Diameter:
Developed:	Length:	Length:
Last Sampled:	T.D.: 47	Slot Size:

WELL CONDITION:		Water Depth: 37.04	
G.S. Elev.:	Water Depth:	F.P. Thickness: 0.1 inches	
T.C. Elev.:	Water Column: 9.96	Water Odor: hydrocarbon	
W.L. Elev.:	Casing Volume: 1.80	Turbidity:	
Note: 2" = 0.16 g/ft; 4" = 0.65 g/ft and 6" = 1.5 g/ft			

Well Purging Method: Positive Pump Purge Vol.: 4.8

LOCATION SKETCH:

See site map

veale - ~~the~~ slight sheen on probe

[illegible]

SAMPLING INFORMATION:

Sample No.	Time	Sampling Method	Container	Analysis Required
AW4082106	10:42	manometer pump	VOAS + 1/2 Amber	VOCS + TPH extended range
FR183106	10:45	grab	" "	" "
EB063106	10:50	pump	" "	" "
TB083106	—	—	VOAS	VOCS

ADDITIONAL INFORMATION:

$$\begin{array}{r} 47.00 \\ 37.04 \\ \hline 59.96 \\ 7.16 \\ \hline 67.12 \\ 159.12 \end{array}$$



WorleyParsons Komex

resources & energy

ASSOCIATED PLATING COMPANY

THIRD QUARTER 2006 GROUNDWATER MONITORING REPORT

ASSOCIATED PLATING COMPANY, 9636 ANN STREET, SANTA FE SPRINGS, CALIFORNIA

Appendix B Laboratory Analytical Report



Worley Parsons Komex
5455 Garden Grove Blvd. Suite 200
Westminster CA, 92683

Project: APC
Project Number: H0287D020
Project Manager: Lee Paprocki

Reported:
09/13/06 11:20

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW1083106	0609011-01	Liquid	08/31/06 09:20	09/01/06 11:40
MW2083106	0609011-02	Liquid	08/31/06 09:49	09/01/06 11:40
MW3083106	0609011-03	Liquid	08/31/06 10:21	09/01/06 11:40
MW4083106	0609011-04	Liquid	08/31/06 10:42	09/01/06 11:40
EB083106	0609011-05	Liquid	08/31/06 10:50	09/01/06 11:40
FB083106	0609011-06	Liquid	08/31/06 10:45	09/01/06 11:40
TB083106	0609011-07	Liquid	08/31/06 00:00	09/01/06 11:40

CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 4 °C, and accompanied by chain of custody documentation.
PRESERVATION: Samples requiring preservation were verified prior to sample preparation and analysis.
HOLDING TIMES: All holding times were met, unless otherwise noted in the report with data qualifiers.
QA/QC CRITERIA: All quality objective criteria were met, except as noted in the report with data qualifiers.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Worley Parsons Komex
5455 Garden Grove Blvd. Suite 200
Westminster CA, 92683

Project: APC
Project Number: H0287D020
Project Manager: Lee Paprocki

Reported:
09/13/06 11:20

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW3083106 (0609011-03) Liquid Sampled: 08/31/06 10:21 Received: 09/01/06 11:40									
HC < C8	0.051	0.010	mg/L	1	B6I0838	09/07/06	09/07/06	EPA 8015B	
C8 <= HC < C9	0.014	0.010	"	"	"	"	"	"	
C9 <= HC < C10	0.030	0.010	"	"	"	"	"	"	
C10 <= HC < C11	0.076	0.010	"	"	"	"	"	"	
C11 <= HC < C12	0.087	0.010	"	"	"	"	"	"	
C12 <= HC < C14	0.26	0.010	"	"	"	"	"	"	
C14 <= HC < C16	0.34	0.010	"	"	"	"	"	"	
C16 <= HC < C18	0.24	0.010	"	"	"	"	"	"	
C18 <= HC < C20	0.19	0.010	"	"	"	"	"	"	
C20 <= HC < C24	0.29	0.010	"	"	"	"	"	"	
C24 <= HC < C28	0.31	0.010	"	"	"	"	"	"	
C28 <= HC < C32	0.23	0.010	"	"	"	"	"	"	
HC >= C32	0.015	0.010	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	2.1	0.050	"	"	"	"	"	"	
Surrogate: o-Terphenyl		102 %	60-175		"	"	"	"	
MW4083106 (0609011-04) Liquid Sampled: 08/31/06 10:42 Received: 09/01/06 11:40									
HC < C8	0.084	0.010	mg/L	1	B6I0838	09/07/06	09/08/06	EPA 8015B	
C8 <= HC < C9	0.031	0.010	"	"	"	"	"	"	
C9 <= HC < C10	0.056	0.010	"	"	"	"	"	"	
C10 <= HC < C11	0.13	0.010	"	"	"	"	"	"	
C11 <= HC < C12	0.17	0.010	"	"	"	"	"	"	
C12 <= HC < C14	0.40	0.010	"	"	"	"	"	"	
C14 <= HC < C16	0.56	0.010	"	"	"	"	"	"	
C16 <= HC < C18	0.39	0.010	"	"	"	"	"	"	
C18 <= HC < C20	0.27	0.010	"	"	"	"	"	"	
C20 <= HC < C24	0.48	0.010	"	"	"	"	"	"	
C24 <= HC < C28	0.57	0.010	"	"	"	"	"	"	
C28 <= HC < C32	0.46	0.010	"	"	"	"	"	"	
HC >= C32	0.030	0.010	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	3.6	0.050	"	"	"	"	"	"	
Surrogate: o-Terphenyl		121 %	60-175		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Worley Parsons Komex
5455 Garden Grove Blvd. Suite 200
Westminster CA, 92683

Project: APC
Project Number: H0287D020
Project Manager: Lee Paprocki

Reported:
09/13/06 11:20

Volatile Organics & Fuel Oxygenates (GC/MS) by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW1083106 (0609011-01) Liquid Sampled: 08/31/06 09:20 Received: 09/01/06 11:40									
Benzene	ND	1.0	µg/L	1	B6I0614	09/05/06	09/05/06	EPA 8260B	
Bromobenzene	ND	1.0	"	"	"	"	"	"	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	8.4	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	3.6	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	1.8	1.0	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Worley Parsons Komex
5455 Garden Grove Blvd. Suite 200
Westminster CA, 92683

Project: APC
Project Number: H0287D020
Project Manager: Lee Paprocki

Reported:
09/13/06 11:20

Volatile Organics & Fuel Oxygenates (GC/MS) by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
MW1083106 (0609011-01) Liquid Sampled: 08/31/06 09:20 Received: 09/01/06 11:40										
Methylene chloride	ND	1.0	µg/L	1	B6I0614	09/05/06	09/05/06	EPA 8260B		
Methyl tert-butyl ether	2.0	1.0	"	"	"	"	"	"		
Naphthalene	ND	1.0	"	"	"	"	"	"		
n-Propylbenzene	ND	1.0	"	"	"	"	"	"		
Styrene	ND	1.0	"	"	"	"	"	"		
Tert-amyl methyl ether	ND	1.0	"	"	"	"	"	"		
Tert-butyl alcohol	ND	5.0	"	"	"	"	"	"		
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"		
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"		
Tetrachloroethene	ND	1.0	"	"	"	"	"	"		
Toluene	ND	1.0	"	"	"	"	"	"		
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"		
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"		
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"		
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"		
Trichloroethene	21	1.0	"	"	"	"	"	"		
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"		
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"		
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"		
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"		
Vinyl chloride	9.9	1.0	"	"	"	"	"	"		
m,p-Xylene	ND	1.0	"	"	"	"	"	"		
o-Xylene	ND	1.0	"	"	"	"	"	"		
Surrogate: Dibromofluoromethane		107 %		86-118		"	"	"	"	
Surrogate: Toluene-d8		104 %		88-110		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %		86-115		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Worley Parsons Komex
5455 Garden Grove Blvd. Suite 200
Westminster CA, 92683

Project: APC
Project Number: H0287D020
Project Manager: Lee Paprocki

Reported:
09/13/06 11:20

Volatile Organics & Fuel Oxygenates (GC/MS) by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW2083106 (0609011-02) Liquid Sampled: 08/31/06 09:49 Received: 09/01/06 11:40									
Benzene	3.1	1.0	µg/L	1	B6I0614	09/05/06	09/05/06	EPA 8260B	
Bromobenzene	ND	1.0	"	"	"	"	"	"	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	12	1.0	"	"	"	"	"	"	
tert-Butylbenzene	1.7	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	57	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	3.2	1.0	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Worley Parsons Komex
5455 Garden Grove Blvd. Suite 200
Westminster CA, 92683

Project: APC
Project Number: H0287D020
Project Manager: Lee Paprocki

Reported:
09/13/06 11:20

Volatile Organics & Fuel Oxygenates (GC/MS) by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW2083106 (0609011-02) Liquid Sampled: 08/31/06 09:49 Received: 09/01/06 11:40									
Methylene chloride	ND	1.0	µg/L	1	B6I0614	09/05/06	09/05/06	EPA 8260B	
Methyl tert-butyl ether	3.0	1.0	"	"	"	"	"	"	
Naphthalene	12	1.0	"	"	"	"	"	"	
n-Propylbenzene	3.5	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	1.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	47	1.0	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		103 %		86-118	"	"	"	"	
Surrogate: Toluene-d8		105 %		88-110	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %		86-115	"	"	"	"	

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Worley Parsons Komex
5455 Garden Grove Blvd. Suite 200
Westminster CA, 92683

Project: APC
Project Number: H0287D020
Project Manager: Lee Paprocki

Reported:
09/13/06 11:20

Volatile Organics & Fuel Oxygenates (GC/MS) by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
MW3083106 (0609011-03) Liquid Sampled: 08/31/06 10:21 Received: 09/01/06 11:40										
Benzene	3.7	1.0	µg/L	1	B6I0614	09/05/06	09/06/06	EPA 8260B		
Bromobenzene	ND	1.0	"	"	"	"	"	"		
Bromochloromethane	ND	1.0	"	"	"	"	"	"		
Bromodichloromethane	ND	1.0	"	"	"	"	"	"		
Bromoform	ND	1.0	"	"	"	"	"	"		
Bromomethane	ND	1.0	"	"	"	"	"	"		
n-Butylbenzene	ND	1.0	"	"	"	"	"	"		
sec-Butylbenzene	11	1.0	"	"	"	"	"	"		
tert-Butylbenzene	3.4	1.0	"	"	"	"	"	"		
Carbon tetrachloride	ND	1.0	"	"	"	"	"	"		
Chlorobenzene	ND	1.0	"	"	"	"	"	"		
Chloroethane	ND	1.0	"	"	"	"	"	"		
Chloroform	ND	1.0	"	"	"	"	"	"		
Chloromethane	ND	1.0	"	"	"	"	"	"		
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"		
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"		
Dibromochloromethane	ND	1.0	"	"	"	"	"	"		
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"		
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"		
Dibromomethane	ND	1.0	"	"	"	"	"	"		
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"		
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"		
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"		
Dichlorodifluoromethane	ND	1.0	"	"	"	"	"	"		
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"		
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"		
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"		
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"		
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"		
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"		
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"		
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"		
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"		
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"		
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"		
Di-isopropyl ether	ND	1.0	"	"	"	"	"	"		
Ethyl tert-butyl ether	ND	1.0	"	"	"	"	"	"		
Ethylbenzene	3.1	1.0	"	"	"	"	"	"		
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"		
Isopropylbenzene	74	1.0	"	"	"	"	"	"		
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"		

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Worley Parsons Komex
5455 Garden Grove Blvd. Suite 200
Westminster CA, 92683

Project: APC
Project Number: H0287D020
Project Manager: Lee Paprocki

Reported:
09/13/06 11:20

Volatiles Organics & Fuel Oxygenates (GC/MS) by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
MW3083106 (0609011-03) Liquid Sampled: 08/31/06 10:21 Received: 09/01/06 11:40										
Methylene chloride	ND	1.0	µg/L	1	B6I0614	09/05/06	09/06/06	EPA 8260B		
Methyl tert-butyl ether	2.2	1.0	"	"	"	"	"	"		
Naphthalene	8.7	1.0	"	"	"	"	"	"		
n-Propylbenzene	5.3	1.0	"	"	"	"	"	"		
Styrene	ND	1.0	"	"	"	"	"	"		
Tert-amyl methyl ether	ND	1.0	"	"	"	"	"	"		
Tert-butyl alcohol	ND	5.0	"	"	"	"	"	"		
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"		
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"		
Tetrachloroethene	ND	1.0	"	"	"	"	"	"		
Toluene	1.6	1.0	"	"	"	"	"	"		
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"		
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"		
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"		
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"		
Trichloroethene	ND	1.0	"	"	"	"	"	"		
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"		
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"		
1,2,4-Trimethylbenzene	3.4	1.0	"	"	"	"	"	"		
1,3,5-Trimethylbenzene	1.2	1.0	"	"	"	"	"	"		
Vinyl chloride	58	1.0	"	"	"	"	"	"		
m,p-Xylene	3.1	1.0	"	"	"	"	"	"		
o-Xylene	ND	1.0	"	"	"	"	"	"		
Surrogate: Dibromofluoromethane		91.2 %		86-118		"	"	"	"	
Surrogate: Toluene-d8		100 %		88-110		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		114 %		86-115		"	"	"	"	

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Worley Parsons Komex
5455 Garden Grove Blvd. Suite 200
Westminster CA, 92683

Project: APC
Project Number: H0287D020
Project Manager: Lee Paprocki

Reported:
09/13/06 11:20

Volatile Organics & Fuel Oxygenates (GC/MS) by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW4083106 (0609011-04) Liquid Sampled: 08/31/06 10:42 Received: 09/01/06 11:40									
Benzene	7.6	1.0	µg/L	1	B6I0614	09/05/06	09/06/06	EPA 8260B	
Bromobenzene	ND	1.0	"	"	"	"	"	"	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	13	1.0	"	"	"	"	"	"	
tert-Butylbenzene	1.4	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	87	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	

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Worley Parsons Komex
5455 Garden Grove Blvd. Suite 200
Westminster CA, 92683

Project: APC
Project Number: H0287D020
Project Manager: Lee Paprocki

Reported:
09/13/06 11:20

Volatile Organics & Fuel Oxygenates (GC/MS) by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit							
MW4083106 (0609011-04) Liquid Sampled: 08/31/06 10:42 Received: 09/01/06 11:40										
Methylene chloride	ND	1.0	µg/L	1	B6I0614	09/05/06	09/06/06	EPA 8260B		
Methyl tert-butyl ether	2.8	1.0	"	"	"	"	"	"		
Naphthalene	1.9	1.0	"	"	"	"	"	"		
n-Propylbenzene	8.9	1.0	"	"	"	"	"	"		
Styrene	ND	1.0	"	"	"	"	"	"		
Tert-amyl methyl ether	ND	1.0	"	"	"	"	"	"		
Tert-butyl alcohol	ND	5.0	"	"	"	"	"	"		
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"		
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"		
Tetrachloroethene	1.2	1.0	"	"	"	"	"	"		
Toluene	ND	1.0	"	"	"	"	"	"		
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"		
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"		
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"		
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"		
Trichloroethene	ND	1.0	"	"	"	"	"	"		
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"		
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"		
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"		
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"		
Vinyl chloride	54	1.0	"	"	"	"	"	"		
m,p-Xylene	ND	1.0	"	"	"	"	"	"		
o-Xylene	ND	1.0	"	"	"	"	"	"		
Surrogate: Dibromofluoromethane		89.4 %		86-118		"	"	"	"	
Surrogate: Toluene-d8		103 %		88-110		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %		86-115		"	"	"	"	

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Worley Parsons Komex
5455 Garden Grove Blvd. Suite 200
Westminster CA, 92683

Project: APC
Project Number: H0287D020
Project Manager: Lee Paprocki

Reported:
09/13/06 11:20

Volatiles Organics & Fuel Oxygenates (GC/MS) by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EB083106 (0609011-05) Liquid Sampled: 08/31/06 10:50 Received: 09/01/06 11:40									
Benzene	ND	1.0	µg/L	1	B6I0614	09/05/06	09/06/06	EPA 8260B	
Bromobenzene	ND	1.0	"	"	"	"	"	"	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	2.3	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	

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Worley Parsons Komex
5455 Garden Grove Blvd. Suite 200
Westminster CA, 92683

Project: APC
Project Number: H0287D020
Project Manager: Lee Paprocki

Reported:
09/13/06 11:20

Volatile Organics & Fuel Oxygenates (GC/MS) by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EB083106 (0609011-05) Liquid Sampled: 08/31/06 10:50 Received: 09/01/06 11:40									
Methylene chloride	ND	1.0	µg/L	1	B6I0614	09/05/06	09/06/06	EPA 8260B	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	1.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		89.4 %	86-118		"	"	"	"	
Surrogate: Toluene-d8		101 %	88-110		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	86-115		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Worley Parsons Komex
5455 Garden Grove Blvd. Suite 200
Westminster CA, 92683

Project: APC
Project Number: H0287D020
Project Manager: Lee Paprocki

Reported:
09/13/06 11:20

Volatile Organics & Fuel Oxygenates (GC/MS) by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
FB083106 (0609011-06) Liquid Sampled: 08/31/06 10:45 Received: 09/01/06 11:40									
Benzene	ND	1.0	µg/L	1	B6I0614	09/05/06	09/06/06	EPA 8260B	
Bromobenzene	ND	1.0	"	"	"	"	"	"	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	1.0	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	

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Worley Parsons Komex
5455 Garden Grove Blvd. Suite 200
Westminster CA, 92683

Project: APC
Project Number: H0287D020
Project Manager: Lee Paprocki

Reported:
09/13/06 11:20

Volatile Organics & Fuel Oxygenates (GC/MS) by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
FB083106 (0609011-06) Liquid Sampled: 08/31/06 10:45 Received: 09/01/06 11:40									
Methylene chloride	ND	1.0	µg/L	1	B6I0614	09/05/06	09/06/06	EPA 8260B	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	1.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		90.4 %	86-118		"	"	"	"	
Surrogate: Toluene-d8		101 %	88-110		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	86-115		"	"	"	"	

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Worley Parsons Komex
5455 Garden Grove Blvd. Suite 200
Westminster CA, 92683

Project: APC
Project Number: H0287D020
Project Manager: Lee Paprocki

Reported:
09/13/06 11:20

Volatile Organics & Fuel Oxygenates (GC/MS) by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TB083106 (0609011-07) Liquid Sampled: 08/31/06 00:00 Received: 09/01/06 11:40									
Benzene	ND	1.0	µg/L	1	B6I0614	09/05/06	09/06/06	EPA 8260B	
Bromobenzene	ND	1.0	"	"	"	"	"	"	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	

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Worley Parsons Komex
5455 Garden Grove Blvd. Suite 200
Westminster CA, 92683

Project: APC
Project Number: H0287D020
Project Manager: Lee Paprocki

Reported:
09/13/06 11:20

Volatiles Organics & Fuel Oxygenates (GC/MS) by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TB083106 (0609011-07) Liquid Sampled: 08/31/06 00:00 Received: 09/01/06 11:40									
Methylene chloride	ND	1.0	µg/L	1	B6I0614	09/05/06	09/06/06	EPA 8260B	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	1.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		89.4 %	86-118		"	"	"	"	
Surrogate: Toluene-d8		102 %	88-110		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	86-115		"	"	"	"	

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Worley Parsons Komex
5455 Garden Grove Blvd. Suite 200
Westminster CA, 92683

Project: APC
Project Number: H0287D020
Project Manager: Lee Paprocki

Reported:
09/13/06 11:20

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6I0838 - EPA 3510C Sep Funnel

Blank (B6I0838-BLK1)

Prepared & Analyzed: 09/07/06

HC < C8	ND	0.010	mg/L
C8 <= HC < C9	ND	0.010	"
C9 <= HC < C10	ND	0.010	"
C10 <= HC < C11	ND	0.010	"
C11 <= HC < C12	ND	0.010	"
C12 <= HC < C14	ND	0.010	"
C14 <= HC < C16	ND	0.010	"
C16 <= HC < C18	ND	0.010	"
C18 <= HC < C20	ND	0.010	"
C20 <= HC < C24	ND	0.010	"
C24 <= HC < C28	ND	0.010	"
C28 <= HC < C32	ND	0.010	"
HC >= C32	ND	0.010	"
Total Petroleum Hydrocarbons (C7-C36)	ND	0.050	"

Surrogate: o-Terphenyl 0.130 " 0.100 130 60-175

LCS (B6I0838-BS1)

Prepared & Analyzed: 09/07/06

Diesel Range Organics (C10-C24)	0.674	0.050	mg/L	0.750	89.9	80-120
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LCS (B6I0838-BS2)

Prepared & Analyzed: 09/07/06

Diesel Range Organics (C10-C24)	0.751	0.050	mg/L	0.750	100	80-120
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LCS Dup (B6I0838-BSD1)

Prepared & Analyzed: 09/07/06

Diesel Range Organics (C10-C24)	0.702	0.050	mg/L	0.750	93.6	80-120	4.07	30
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Worley Parsons Komex
5455 Garden Grove Blvd. Suite 200
Westminster CA, 92683

Project: APC
Project Number: H0287D020
Project Manager: Lee Paprocki

Reported:
09/13/06 11:20

Volatile Organics & Fuel Oxygenates (GC/MS) by EPA Method 8260B - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6I0614 - EPA 5030B P & T

Blank (B6I0614-BLK1)

Prepared & Analyzed: 09/05/06

Benzene	ND	1.0	µg/L
Bromobenzene	ND	1.0	"
Bromochloromethane	ND	1.0	"
Bromodichloromethane	ND	1.0	"
Bromoform	ND	1.0	"
Bromomethane	ND	1.0	"
n-Butylbenzene	ND	1.0	"
sec-Butylbenzene	ND	1.0	"
tert-Butylbenzene	ND	1.0	"
Carbon tetrachloride	ND	1.0	"
Chlorobenzene	ND	1.0	"
Chloroethane	ND	1.0	"
Chloroform	ND	1.0	"
Chloromethane	ND	1.0	"
2-Chlorotoluene	ND	1.0	"
4-Chlorotoluene	ND	1.0	"
Dibromochloromethane	ND	1.0	"
1,2-Dibromo-3-chloropropane	ND	5.0	"
1,2-Dibromoethane (EDB)	ND	1.0	"
Dibromomethane	ND	1.0	"
1,2-Dichlorobenzene	ND	1.0	"
1,3-Dichlorobenzene	ND	1.0	"
1,4-Dichlorobenzene	ND	1.0	"
Dichlorodifluoromethane	ND	1.0	"
1,1-Dichloroethane	ND	1.0	"
1,2-Dichloroethane	ND	1.0	"
1,1-Dichloroethene	ND	1.0	"
cis-1,2-Dichloroethene	ND	1.0	"
trans-1,2-Dichloroethene	ND	1.0	"
1,2-Dichloropropane	ND	1.0	"
1,3-Dichloropropane	ND	1.0	"
2,2-Dichloropropane	ND	1.0	"
1,1-Dichloropropene	ND	1.0	"
cis-1,3-Dichloropropene	ND	1.0	"
trans-1,3-Dichloropropene	ND	1.0	"
Di-isopropyl ether	ND	1.0	"
Ethyl tert-butyl ether	ND	1.0	"

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Worley Parsons Komex
5455 Garden Grove Blvd. Suite 200
Westminster CA, 92683

Project: APC
Project Number: H0287D020
Project Manager: Lee Paprocki

Reported:
09/13/06 11:20

Volatile Organics & Fuel Oxygenates (GC/MS) by EPA Method 8260B - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6I0614 - EPA 5030B P & T

Blank (B6I0614-BLK1)

Prepared & Analyzed: 09/05/06

Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	1.0	"							
Isopropylbenzene	ND	1.0	"							
p-Isopropyltoluene	ND	1.0	"							
Methylene chloride	ND	1.0	"							
Methyl tert-butyl ether	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
Tert-amyl methyl ether	ND	1.0	"							
Tert-butyl alcohol	ND	5.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
Toluene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	1.0	"							
Surrogate: Dibromofluoromethane	55.6		"	50.0		111	86-118			
Surrogate: Toluene-d8	52.5		"	50.0		105	88-110			
Surrogate: 4-Bromofluorobenzene	53.8		"	50.0		108	86-115			

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5455 Garden Grove Blvd. Suite 200
Westminster CA, 92683

Project: APC
Project Number: H0287D020
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Reported:
09/13/06 11:20

Volatile Organics & Fuel Oxygenates (GC/MS) by EPA Method 8260B - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch B6I0614 - EPA 5030B P & T

LCS (B6I0614-BS1)

Prepared & Analyzed: 09/05/06

Benzene	52.8	1.0	µg/L	50.0		106	80-120			
Chlorobenzene	47.5	1.0	"	50.0		95.0	80-120			
1,1-Dichloroethene	57.5	1.0	"	50.0		115	80-120			
Toluene	53.0	1.0	"	50.0		106	80-120			
Trichloroethene	52.9	1.0	"	50.0		106	80-120			

Matrix Spike (B6I0614-MS1)

Source: 0609019-05

Prepared: 09/05/06 Analyzed: 09/06/06

Benzene	38.2	1.0	µg/L	50.0	ND	76.4	37-151			
Chlorobenzene	40.5	1.0	"	50.0	ND	81.0	37-160			
1,1-Dichloroethene	38.6	1.0	"	50.0	ND	77.2	50-150			
Toluene	39.1	1.0	"	50.0	ND	78.2	47-150			
Trichloroethene	37.2	1.0	"	50.0	ND	74.4	71-157			

Matrix Spike Dup (B6I0614-MSD1)

Source: 0609019-05

Prepared: 09/05/06 Analyzed: 09/06/06

Benzene	36.4	1.0	µg/L	50.0	ND	72.8	37-151	4.83	30	
Chlorobenzene	38.6	1.0	"	50.0	ND	77.2	37-160	4.80	30	
1,1-Dichloroethene	35.1	1.0	"	50.0	ND	70.2	50-150	9.50	30	
Toluene	41.2	1.0	"	50.0	ND	82.4	47-150	5.23	30	
Trichloroethene	37.2	1.0	"	50.0	ND	74.4	71-157	0.00	30	

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Worley Parsons Komex
5455 Garden Grove Blvd. Suite 200
Westminster CA, 92683

Project: APC
Project Number: H0287D020
Project Manager: Lee Paprocki

Reported:
09/13/06 11:20

Notes and Definitions

S-03 Surrogate diluted out.
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

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